

Tactical Remote Sensor Systems-Product Improvement Program

Description

Tactical Remote Sensor Systems (TRSS) provide all-weather remote monitoring of activity within and near a given objective area. The TRSS-Product Improvement Program (PIP) is an incremental upgrade to selected portions of these systems. The TRSS-PIP will use state-of-the-art seismic, infrared, magnetic, acoustic, and imaging sensors to autonomously classify, identify, and report threat activity, which is active in their detection range according to operator selectable reporting criteria. Major components of the TRSS-PIP are Unattended Ground Miniaturized Sensors (UGMS) that are hand-emplaced, and Advanced Air-Delivered Sensors (AADS) that are fixed-wing emplaced. These systems will upgrade the current fielded baseline and provide a Corps-wide capability for unattended ground surveillance that can be tailored to the operational requirement. TRSS is employed by the Marine Corps' Ground Sensor Platoons (GSPs).

Operational Impact

Initiated in 1991, TRSS replaced the Vietnam-era REMBASS system with

upgraded electronics, sensors, and relays, which were reduced in weight and size, and monitoring devices that give the GSP extra capabilities without changing its operational profile.

Program Status

TRSS achieved initial operational capability in 1992 and is currently 100 percent fielded.

Procurement Profile:	FY 05	FY 06
Quantity:		
Thermal Imagers	155	37
Electro-optical Imagers	155	37
Target		
Recognition Sensors	68	350
Advanced Air		
Delivered Sensors	80	145
Satellite		
Communications Modules	100	0

Developer/Manufacturer

NOVA Engineering, Inc., Cincinnati, OH
Textron Systems, Wilmington, MA
Ocean Systems Engineering Corporation (OSEC), Carlsbad, CA